



5300 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)821-7413  
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**MODEL 5230**  
**80-1000 MHz**  
**5000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

## Solid State Broadband High Power RF Amplifier

The 5230 is a 5000 Watt broadband amplifier that covers the 80 – 1000 MHz frequency range. This amplifier utilizes latest generation power devices that provide unrivaled high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

This OPHIR<sub>RF</sub> amplifiers the 5230 comes with an extended multi-year warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C			
		Minimum	Nominal	Maximum	Unit
<b>Electrical</b>					
1	Frequency Range	80		1000	MHz
2	Power at P <sub>SAT</sub>	4000	5000		Watts
3	Power at P <sub>1dB</sub>	2000	2500		Watts
4	Small Signal Gain	69			dB
5	Gain Flatness			±5.5	dB
6	Input VSWR			2:1	Ratio
7	Harmonics at P <sub>1dB</sub>	-12	-15		dBc
8	Spurious Signals at P <sub>1dB</sub>		-60		dBc
9	Input/Output Impedance		50		Ohms
10	AC Input Power			35	kVA
11	AC Input	208 VAC ± 10%, Three Phase 3Ø 50/60 Hz			
12	RF Input		0	+3	dBm
13	RF Input Signal Format	CW/AM/FM/PM/Pulse			
14	Class of Operation	Class A			
<b>Environmental</b>					
15	Operating Temperature	0°		50°	° C
16	Operating Humidity	95% Non-condensing			
17	Operating Altitude	Up to 10,000' Above Sea Level			
18	Shock and Vibration	Normal Truck Transport			

*Specifications subject to change without notice*





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	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Mechanical</u></b>		
19	Dimensions (Two Cabinets)	Each Cabinet 65" x 24" x 32" (H x W x D)
20	Weight	1600 Lbs. (Total)
21	Connectors	Type-N Female Input (Rear Panel) Type 1 5/8 EIA Output (Rear Panel) Type-N Female FWD Sample Port (Rear Panel) Type-N Female REV Sample Port (Rear Panel) RJ 45 Ethernet (Rear Panel) GPIB IEEE 488 (Rear Panel) RS232 9-Pin DSub (Rear Panel)
22	Grounding	Chassis
23	Cooling	Internal Forced Air

## FRONT PANEL CONTROLLER FEATURES

- ◇ Forward Power Monitoring
- ◇ Reflected Power Monitoring
- ◇ Gain Control (Continuously Variable VVA 20dB)
- ◇ Fault Status and Error Codes
- ◇ Full Protection Of any VSWR Condition, Open or Short
- ◇ Interlock Open Indicator
- ◇ Standby/Enable Control
- ◇ Front Panel Display for easy viewing of System Status Locally
- ◇ Touch Screen display
- ◇ Controller Interfaces: IEEE-488 (GPIB), RS-232, RS-232 fiber over optic, USB, and Ethernet

## CIRCUIT INDICATIONS

- ◇ Forward Power
- ◇ Reflected power
- ◇ Fault Codes and Identifier
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage
- ◇ Standby/Online
- ◇ Power Supply Output Voltage

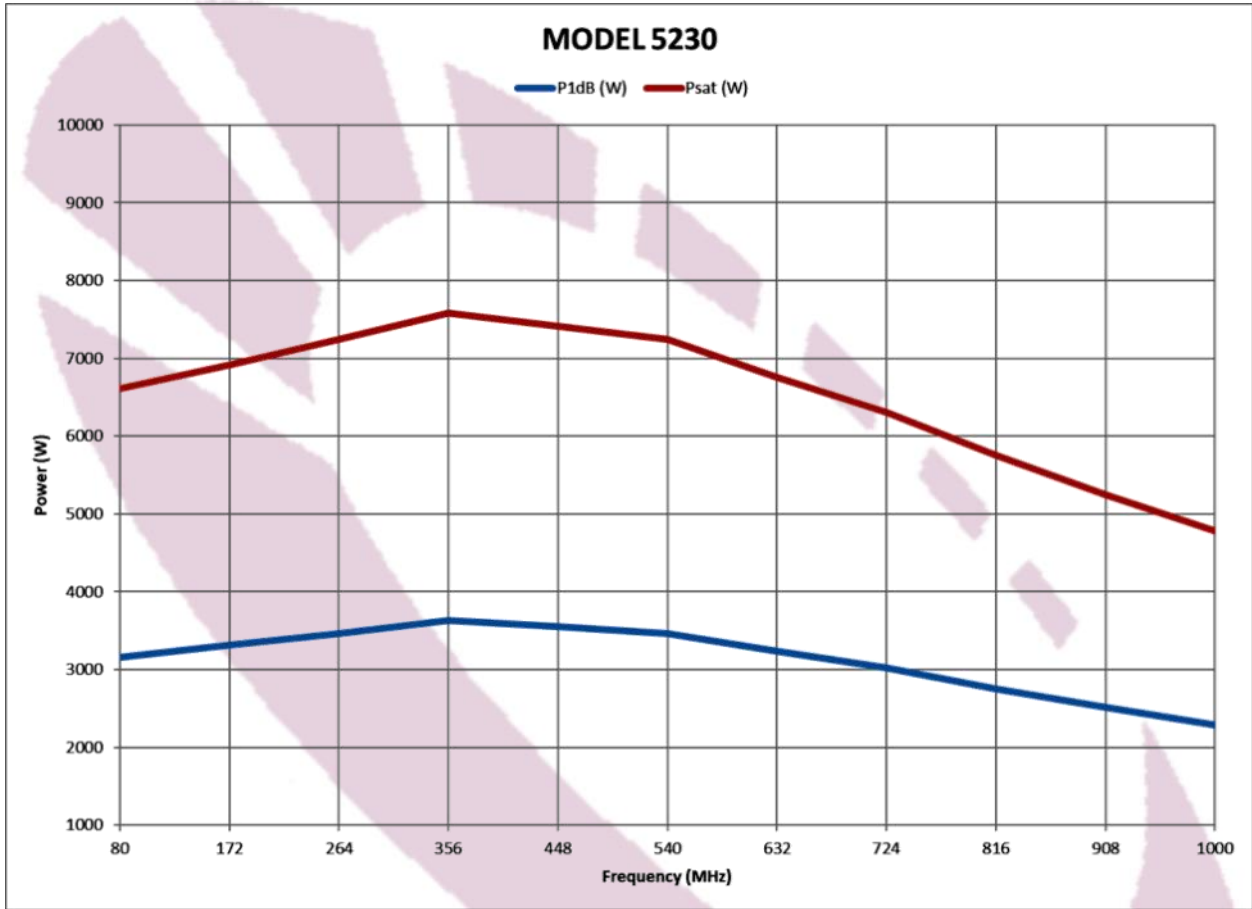
## CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Open or Short VSWR Conditions



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**Special Features**

- Industry Leading Power Performance
- Designed and Manufactured in the USA
- Perfect choice for Automotive Testing
- Perfect choice for MIL STD 461 RS103 Testing